

**PAT-NO:** JP410168652A  
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**TITLE:** TOBACCO DEODORANT AND CRIMPED POLYOLEFIN FIBER, ITS PRODUCTION AND TOBACCO DEODORANT CARPET USING THE SAME CRIMPED FIBER  
**PUBN-DATE:** June 23, 1998

**INVENTOR-INFORMATION:**

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**ABSTRACT:**

**PROBLEM TO BE SOLVED:** To produce a tobacco deodorant carpet excellent in resistance to washing by forming a crimped polyolefin-based fiber comprising a deodorant composed of a hydrazine derivative and an inorganic substance having adsorptivity.

**SOLUTION:** A deodorant composed of fine powder, obtained by mixing a hydrazine derivative such as a long-chain aliphatic mono- or dicarboxylic acid hydrazide or an aromatic mono- or dicarboxylic acid hydrazide having  $\leq 5\text{g/l}$  solubility in water at  $25^\circ\text{C}$ , preferably dodecanedioic acid dihydrazide with an inorganic substance having the adsorptivity, preferably a complex of silicon oxide with zinc oxide and alumina and having  $\leq 20\mu\text{m}$  average particle diameter is prepared. A polypropylene having 10-50g/10min melt flow rate is then compounded with 1-10wt.% resultant deodorant and the obtained composition is melt spun, drawn at 2-7 times draw ratio and heat-treated at  $\leq 20\%$  relaxation ratio with hot air at  $110\text{-}150^\circ\text{C}$  to afford a crimped tobacco deodorant polypropylene fiber having  $\geq 6\text{cm}^3/\text{g}$  bulkiness and  $>60\%$  deodorization ratio for ammonia and acetaldehyde.

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